

- A. Field Name (column) – Annual spreading Report – Crop Year -2016
- B. Prior Crop – Annual Spreading Report – Crop Year - 2016
- C. 2016 Crop – Annual Spreading Report – Crop Year – 2016
- D. Recommended Rate by A2809 for crop year – this is actually the recommended rate in Annual Spreading Report – Crop year 2016 – I just meant that to come up with this N application rate it factored in all the necessary criteria from A2809 inputted by CSD. Changed the title on new spreadsheet
- E. Irrigated – Not irrigated – Table 6.1 in A2809 pg.38 started to use this table, but after our conference call the recommended rate already considers this in its recommendation – this is what I understood after our conference call. Took this column – not needed
- F. Range for Nitrogen Application –Table 6.1 - started to use the high end of the range, but again after our conference call – I understood that A2809 is already factored in all of the criteria to come up with its recommended rate inputted by CSD. Took this column out -not needed
- G. Only if manure is the only source of N – you can add 20% more nitrogen – According to 590 -However, in the Annual Spreading Report – Crop year 2016 – Nitrogen from manure was always less than total N – since I do not have the actual N numbers – I made the assumption it was fertilizer. Took this column out not needed
- H. 20 lbs of starter fertilizer – This is already considered in the recommended rate. Same as the reason above. Took this column out -not needed
- I. Legume credit – started to try and figure out, but since I do not have the data submitted as required by the permit – I cannot be sure of all the sources of Nitrogen. Took this column out -not needed
- J. Planned Fertilizer – Did not look for the documents – since this information is located in documents with title “planned” I did not see the relevance. Took this column out -not needed
- K. Column in the Annual Spreading report t- Total N lb/acre with fertilizer, legume credit, and manure Took this column out -not needed
- L. Nitrogen from Manure – Nitrogen that came from manure – Annual Spreading Report – crop year -2016 Took this column out -not needed
- M. 2nd year manure credit – was going to try and input this from the manure tests, but because it was supposed to be done according to the permit. Did not do it. Took this column out -not needed
- N. Actual Rate – Actual Rate of N – this is the same as column K Left this column in because this was what CSD actually applied for N.
- O. Potential Over-application – Was within the 30-50 lbs for potatoes with a low petiole test according to A2809 page 42, but without documentation from facility showing the low petiole test I am stating potential overapplication. Left this column – as explained
- P. Actual Overapplication – Higher than the recommended rate and higher than the 50lbs of additional N due to low Petiole tests. Left this column – as explained
- Q. Other sources of N – thought I may need that column – but did not use it. Took this column out -not needed

- R. Exceeds Nutrient Recommendation Rate – Applied more N than the recommended N application rate on the Annual Spreading Report – Crop year 2016.
- S. Soil tests were used in P calculations – for determining if they need to apply at 4 year uptake rate. Took this column out -not needed
- T. OM% - was looked at because according to A2809 tables 6.3 pages 43-44 may be less if have higher organic matter, but again this should be calculated in with SnapPlus calculations.

How I determined over-application - Row 25 – N 14 – recommended rate 250 CSD applied total N of 336 if you add 50 additional lbs for the low petiole test = 300 still higher than what is allowed for N application.